

In the Claims:

Amendments to the Claims:

This following listing of claims will replace all prior versions, and listings, of claims in the application:

1.-38. (Cancelled)

39. (Previously presented) A ski binding for a ski comprising:

a rigid static base plate;

a top plate pivotally attached to the static base plate;

a toe holding means pivotally mounted to said top plate so that said toe holding means can pivot around a vertical axis;

a heel holding means mounted on said top plate;

a means to mount said static base plate on said ski at or near a longitudinal center of said static base plate;

a first pivot means located between said center and said toe holding means adapted to allow said top plate to pivot around said first pivot means.

40. (Previously presented) The ski binding as claimed in claim 39, further comprising second pivot means located between said center and said heel holding means adapted to allow said top plate to pivot around said second pivot means.

41. (Cancelled)

42. (Previously presented) The ski binding as claimed in claim 40 wherein said heel holding means are pivotally mounted to said top plate so that said heel holding means can pivot around a vertical axis.

43. (Cancelled)

44. (Cancelled)

45. (Currently amended) A ski binding comprising:

a static base plate capable of being fixedly attached to a ski or ski board;

a top plate moveably attached to the static base

plate in a manner that permits pivotal movement of generally said entire top plate around a vertical axis;

a biasing means, for biasing the top plate towards a predetermined position;

a toe holding means having first vertical pivot

a means connected to the said base plate and second vertical pivot means connected to the said top plate such that said toe holding means can pivot around said first vertical pivot means; and

a heel holding means having third vertical pivot means connected to the said base plate and fourth vertical pivot means connected to the said top plate such that said heel holding means can pivot around said third vertical pivot means when a lateral force is applied to the heel portion of ~~the boot~~ a boot causing lateral displacement of said top plate from the predetermined position and the release of the boot.

46. (Cancelled)

47. (Cancelled)

48. (Currently amended) A ski binding comprising:

a static base plate capable of being fixedly attached to a ski or ski board;

a top plate moveably attached to the static base plate in a manner that permits pivotal movement of generally said entire top plate around a vertical axis;

a first and second pivoting means, coupled to said top plate, said first pivoting means disposed forward of a central point along a longitudinal axis of said top plate proximate a toe holding region on said top plate, said second pivoting means disposed rearward of said central point along a longitudinal axis of said top plate proximate a heel holding region on said top plate, said first and second pivoting means for allowing said toe holding region of said top plate to move generally laterally in a first direction and said second pivoting means for allowing said heel holding region of said top plate to move generally laterally in a second direction opposite said first direction;

a biasing means, coupled to said first and second

pivoting means, for biasing the top plate towards a predetermined position;

a toe holding means having first vertical pivot means connected to the said base plate and second vertical pivot means connected to the said top plate such that said toe holding means can pivot around said first vertical pivot means when a lateral force is applied to the toe portion of the boot causing lateral displacement of said top plate from the predetermined position and the release of ~~the boot~~ a boot; and

a heel holding means, pivotally connected to the top plate proximate said heel holding region such that said heel holding means can pivot around a vertical axis, and wherein a lateral force applied to the heel holding means is transferred to the top plate causing lateral displacement of said top plate from the predetermined position.

49. (New) A safety ski binding for releasably securing a boot having a toe portion and a heel portion to a ski or a ski board comprising:

a static base plate capable of being fixedly attached to said ski or ski board;

a top plate pivotally attached to the static base plate in a manner that permits pivotal movement of generally said entire top plate around a vertical axis;

a biasing means for biasing the top plate towards a predetermined position, said biasing means comprising a laterally pivoting biasing means having a first laterally displacing cam and a second laterally displacing cam wherein said first laterally displacing cam comprises a first bias which pivotally cooperates with said top plate and said second laterally displacing cam comprises a second bias which pivotally cooperates with said top plate, said first bias being different than said second bias; and

a toe holding means having first vertical pivot means connected to the said base plate and second vertical pivot means connected to the said top plate such that said toe holding means can pivot around said first vertical pivot means when a lateral force is applied to the toe portion of the boot causing lateral displacement of said

top plate from the predetermined position and the release of the boot.

50. (New) A safety ski binding for releasably securing a boot having a toe portion and a heel portion to a ski or a ski board comprising:

a static base plate capable of being fixedly attached to said ski or ski board;

a top plate pivotally attached to the static base plate in a manner that permits pivotal movement of generally said entire top plate around a vertical axis;

a biasing means for biasing the top plate towards a predetermined position, said biasing means comprising a laterally pivoting biasing means having a first laterally displacing cam wherein said first laterally displacing cam comprises a cam follower, a first cam surface on which said cam follower may laterally travel if a lateral force having a first direction is applied thereon and a second cam surface on which said cam follower may laterally travel if a lateral force having a second direction is applied thereon; and

a toe holding means having first vertical pivot means connected to the said base plate and second vertical pivot means connected to the said top plate such that said toe holding means can pivot around said first vertical pivot means when a lateral force is applied to the toe portion of the boot causing lateral displacement of said top plate from the predetermined position and the release of the boot.

51. (New) A safety ski binding for releasably securing a boot having a toe portion and a heel portion to a ski or a ski board comprising:

a static base plate capable of being fixedly attached to said ski or ski board;

a top plate pivotally attached to the static base plate in a manner that permits pivotal movement of generally said entire top plate around a vertical axis;

a biasing means for biasing the top plate towards a predetermined position, said biasing means comprising a laterally pivoting biasing means having a first laterally displacing cam and a second laterally displacing cam

wherein said first laterally displacing cam comprises a first bias which pivotally cooperates with said top plate and said second laterally displacing cam comprises a second bias which pivotally cooperates with said top plate, said first bias being different than said second bias;

a toe holding means having first vertical pivot means connected to the said base plate and second vertical pivot means connected to the said top plate such that said toe holding means can pivot around said first vertical pivot means when a lateral force is applied to the toe portion of the boot causing lateral displacement of said top plate from the predetermined position and the release of the boot; and

a heel holding means pivotally connected on said top plate such that said heel holding means can pivot around a vertical axis and so that a lateral force applied to the heel holding means is transferred to said top plate which will cause said heel holding means to pivot.

52. (New) A safety ski binding for releasably securing a boot having a toe portion and a heel portion to a ski or a ski board comprising:

a static base plate capable of being fixedly attached to said ski or ski board;

a top plate pivotally attached to the static base plate in a manner that permits pivotal movement of generally said entire top plate around a vertical axis;

a biasing means for biasing the top plate towards a predetermined position, said biasing means comprising a laterally pivoting biasing means having a first laterally displacing cam wherein said first laterally displacing cam comprises a cam follower, a first cam surface on which said cam follower may laterally travel if a lateral force having a first direction is applied thereon and a second cam surface on which said cam follower may laterally travel if a lateral force having a second direction is applied thereon;

a toe holding means having first vertical pivot means connected to the said base plate and second vertical pivot means connected to the said top plate such that said

toe holding means can pivot around said first vertical pivot means when a lateral force is applied to the toe portion of the boot causing lateral displacement of said top plate from the predetermined position and the release of the boot; and

a heel holding means pivotally connected on the top plate such that said heel holding means can pivot around a vertical axis and so that a lateral force applied to the heel holding means is transferred to the top plate which will cause the heel holding means to pivot.

53. (New) A ski binding for use with a ski or a ski board comprising:

a static base plate capable of being fixedly attached to said ski or ski board;

a top plate pivotally attached to the static base plate;

a laterally pivoting biasing means for biasing the top plate towards a predetermined position, said laterally pivoting biasing means comprising a first laterally displacing cam and a second laterally displacing cam

wherein said first laterally displacing cam comprises a first bias which pivotally cooperates with said top plate and said second laterally displacing cam comprises a second bias which pivotally cooperates with said top plate, said first bias being different than said second bias; and

a toe holding means translatably connected to the top plate so that lateral force applied to the toe holding means is transferred to the top plate, having toe safety release means which will release when the toe holding means is translated.

54. (New) A ski binding as claimed in claim 53 wherein the static base plate is attached to the ski or ski board, in a central portion of the static base plate.

55. (New) A ski binding for use with a ski or a ski board comprising:

a static base plate capable of being fixedly attached to said ski or ski board;

a top plate pivotally attached to the static base

plate;

a laterally pivoting biasing means for biasing the top plate towards a predetermined position, said laterally pivoting biasing means comprising a first laterally displacing cam wherein said first laterally displacing cam comprises a cam follower, a first cam surface on which said cam follower may laterally travel if a lateral force having a first direction is applied thereon and a second cam surface on which said cam follower may laterally travel if a lateral force having a second direction is applied thereon; and

a toe holding means translatably connected to the top plate so that lateral force applied to the toe holding means is transferred to the top plate, having toe safety release means which will release when the toe holding means is translated.

56. (New) A ski binding as claimed in claim 55 wherein the static base plate is attached to the ski or ski board, in a central portion of the static base plate.

57. (New) A safety ski binding for releasably securing a boot having a toe portion and a heel portion to a ski or a ski board comprising:

a static base plate capable of being fixedly attached to said ski or ski board;

a top plate pivotally attached to the static base plate in a manner that permits pivotal movement of generally said entire top plate around a vertical axis;

a biasing means for biasing the top plate towards a predetermined position;

a toe holding means having first vertical pivot means connected to the said base plate and second vertical pivot means connected to the said top plate such that said toe holding means can pivot around said first vertical pivot means when a lateral force is applied to the toe portion of the boot causing lateral displacement of said top plate from the predetermined position and the release of the boot; and

a heel holding means having third vertical pivot means connected to the said base plate and fourth vertical pivot means connected to the said top plate such that said

heel holding means can pivot around said third vertical pivot means when a lateral force is applied to the heel portion of the boot causing lateral displacement of said top plate from the predetermined position and the release of the boot.